

REVELL MEANS CARS

56FER CHAILENGERI OUTLAW

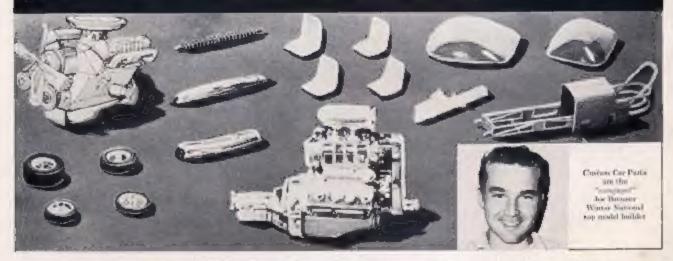


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model Car Science



FIRST REPORTS on the NEWEST KITS page 8



COMPETITION COUPE

CUSTOMIZE

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BEAUTY on the INSIDE page 30



GREAT BIG EXAMPLES page 32

DRAGSTER from scratch page 39 TABLE TOP RACING



model car DRAGS page 48



RACERS at the SPEED SHOW page 49

COVER — Those three wild originals featured on our cover are the work of model building champion Joe Brenner. You can see more of their details in the story beginning on page 15. Our table top racers are seen in action on the beautiful track at Auto Hobbies in Montrose, California, Photos by Jim Miller

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BUILD YOUR OWN TRACK at low cost page 42



TURNPIKE

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CLUB of the MONTH page 58

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turn to page 15



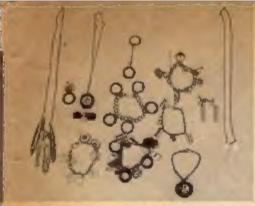


MODEL Newsreel



AMT'S styling consultant George Barris poses with the two extreme sizes of his work. The famous customizer experimented with the model that he holds and is now transferring its shape to the full-size Falcon. The crowds below are just part of the large group of New York take top racing fam who witnessed the running of the Vord-larges 406 Grand National Competitions.





Here's a new departure for custom model parts. All of this jeweley has been made from Revell's Custom Car Parts accessories. These automotive winkets: latest thing in teen-age wear.



Table top racers unxious to join together are invited to become members of MINKA (Miniature International Racing Association). Package above is reat in return for \$3.00 membership fee. The address is MINKA, P.O. Box \$1, Rept C. Englewood, N.J.



leff McLaughlin, Forth, Illinois, was "Top Eliminator" at the recem International Association of Automotive Modelers convention in Philadelphia, left won price with his custominal version of Revell's '56 Ford pickup track.



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'57 CHEVY

... lats of openings

Many unique "firsts" are found in the new 1/25th scale 1957 Chevrolet Bel-Air sport coupe model kit by Revell. Featured are a one-plece body with opening doors, opening hood and trunk and tear quarier windows that can be opened and closed. There is a steerable front end on a miniature nucle. Engine is the famous 283 Chevy V-8.

Custom and competition parts included with Readl's '57 there ha are "Searcages" exhaut pipes. Hadman handers, Sun Tachameter, tubular geille. Gold Seal Traction Masters, Edelbrock, Moon and other speed equipment.







One of the tria of Bank's near "Weird-Ohs" is the "Subarhanite," a real commuting donds who rides through all opposing traffic in a casket-shaped car.

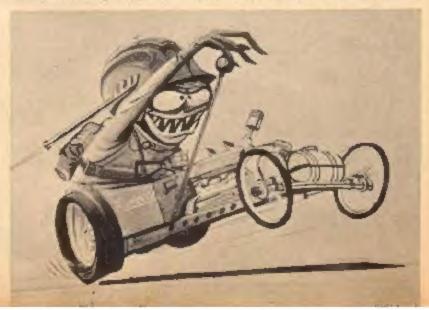


Two more of the "Weied-Oh" tria are the "Motorcyclist Road Blaster" (above) and the hot-colding "Digger" (below). Each of the kits will sell for \$1.00.

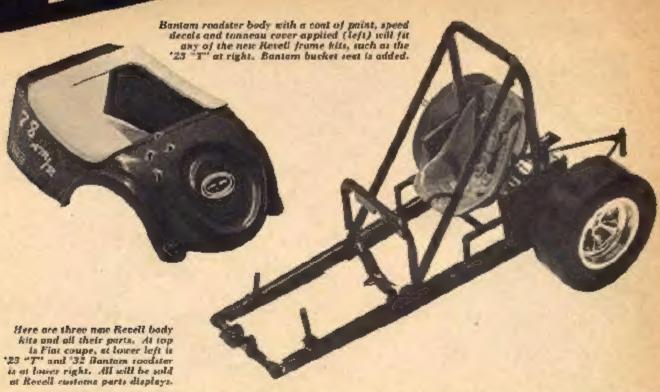
Weird-Ohs

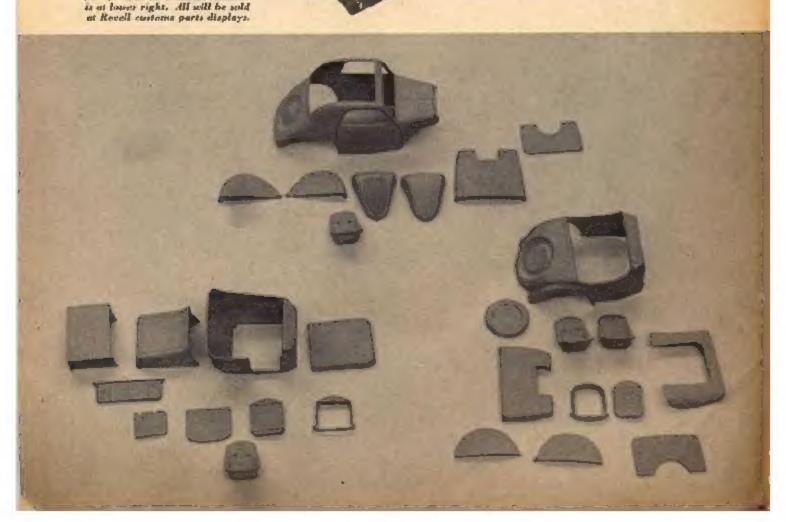
... model monsters

Fresh out of your nightmares and those wild nate eweatshirts, comes a new concept in our models from Hawk. The "Weird-Oha" put into plastic kits the very imaginative freaks that you have seen drawn by some of the cur world's more imaginative artists. For their introduction, three of the charming horrors will take a bow.





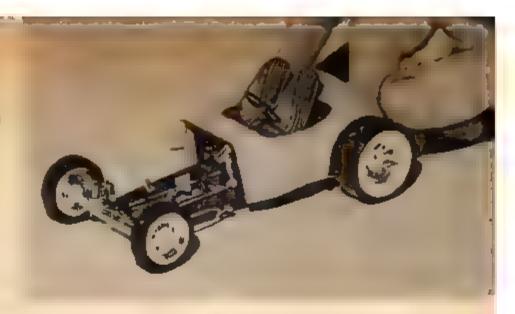


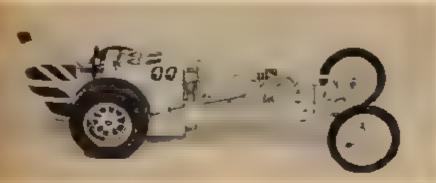


HOT ROD BODY KITS

... more custom parts

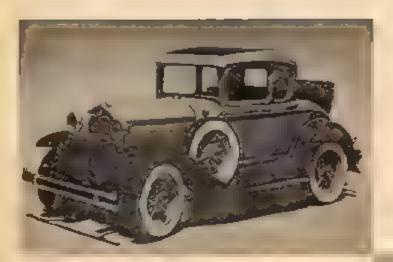
Following up on the great popularity of its Cunom Car Parts, Revell is about to usvell new components that wil, open up new worlds of custom building for the modellor. On their way to you are 1/25th scale replicas of the famous Col Automotive fiberglass bodies. .. the '23 "T Roadster the 32 Austin Bastam and the competition Flat Coupe. Reveil is also releasing chrome frame kits for these bodies.





A Bantam readster body at joined to the '23 'T' frame kit, Also added here are white-wall slicks, competition wheels, speed roadster chassis speed equipment ... all evaluable from kevell.

Another now frame hit allows you to build your own version of the famous "Mooneyes" dragster. The hit comes complete with the "Mooneyes" decals.



Rubley's metal models are an interesting variation for the car fan who seeks solid reproductions. Specializing in famous automotive classics rather than customs and rods, the Hubley line has two new additions: the 1930 Model "A" Ford coupe and the 1932 Chevrolet Roadster.

Two of Hubsey's metal models are the 1930 Ford Coupe (left) and the 1930 Packerd roadstat (below). Due to join them soon is '32 Chevrolet roadster.

Echoes of the '30's

classics in metal







Mark two perallel lines about 1/4 theh apart around top of body. Out top with resor was, follow marked lines. Smooth the cut edges with a file or fine sandpaper.



Cut a slot across the inside of the tap, parallel to the windshield opening, to posts can be bont forward. Coment the two parts of the top tagether and let dry oversight

To the car restorer it has already become a classic to the custom builder, its cream lines make it easily adaptable to form a top show car; and its ruggedness makes it the basis for many of the top competition cars on the track today. It's the 1934 Ford — a meanthably versatile car from the standpoint of the full-scale hot-rodder and an excellent choice for the scale modeler. As far back as the early 1950's this same car was used as the basis for many of the "D" modified competition coupes then burging up the strips. One of the most successful was the coupe owned by Bob and Dick Pierson which set a new class record of 153 mph at Russetta, following as earlier run of 149,005 mph at Bonneyolle.

We have chosen the Pierson car as the subject (or our model Monogram's .914 Ford Coupe is ideal for the basis. Everything but the rear wheels and tires, wheel covers and nose are included in the kit. These extra parts are from Monogram's Midget Raper and Disck Widow kits



Fill in the cracks at the same with body putty. Apply the putty in thin lovers, allowing pienty of time to dry between costs. When completely dry, sand the surject smooth.

Here's how you can re-create a great speed champion, using Monogram's 1984 Ford Kit

Cut off the front portion of the hood behind the cut-out for the radiator filler, Next telm the bood side penels to neach hood top. File edges smooth.

Cement hood top, side penels, tumble sent lid and roll-bar in place (figure S. below). Cat rall bar to fit inside chapped top. Cament top in place.





Fit rest panel in place and rement. Note panel is reversed from stock position. Add interior apholatory panels, desh, steering school and the out-down windshield frame.



Remains all raised partitions of the rear pain section.
Fill the cut-out areas and holes with scrap plastic and body pasty. When all this is dry, and entire area smooth.





Cut scrap plastic to fill in front and rear wheel cut-auts. Fit the none section from a Monagram Midget Recer kit in place and fill all cracks with body putty. As always, sand smooth.

Smooth the entire body with #400 wet-ar-dry sandpaper. Apply primer cost and when dry sand again, wing sending blocks and lots of weter.





Cut off the reac portion of the frame just behind the reac spring support. Also remove the front humper brackets and tank supports. Cut off and save the front axle supports.



Now cut off approximately 1/16 of an men from each end of the front oxfe support. Lement it back into position. This process results in a narrowing of the front end of frame.



Attach tubular front axie, radius rods, drag link, tie rod, wheels and engine exhausts (above). Rear wheels and tires and four wheel covers are from Black Widne kit. After pointing add door hundles and grills from Midget Racer lat.



Announcing a MODEL CAR SCIENCE

Contest

FOR MODELERS

Each month the editors of MCS will select from PHOTOS submitted the top model call it will be shown on these pages and its owner will receive a \$25 PRIZE.

SEND A PHOTO OF YOUR PRIZE MODEL TODAY TO:



MODEL CAR SCIENCE

Contest Editor 131 So. Barrington Pl. Los Angeles 49, Calif.

You may submit as many entries as you wish Send phate only please NO k 's is the you name address age and intermitted on how you but the hope. On CAR mode little in 9-between Easing return an inhalog submitted.

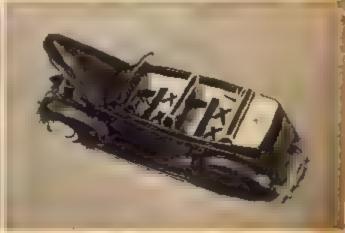


Close-ups of our cover cars . . . the work of master builder Joe Brenner

Fresh off our cover come three of the greatest custom built models ever made. Their builder Joe Brenner of Burbank, California is one of the top creative model ers in the country Winner of the model sweepstakes at last year's hig Winternationals of the NHRA. Brenner is a careful craftsman who claims that

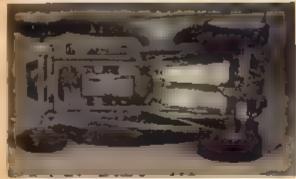
time is one of his important collider never hurnes to firesh any one car. He always has a number in the works. When he turns to one he has a new and specific idea to add to it. I may take him a year to finish a particular model, but when it is ready every detail is just right.





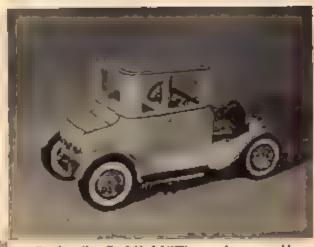




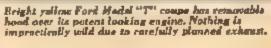






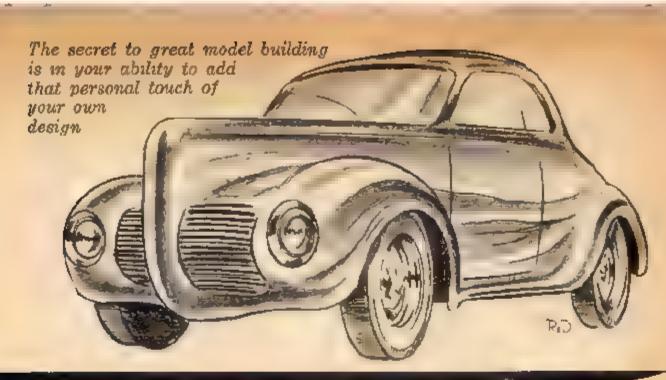


Nevert car of this trie, the unique "Mysterie" is an extreme custom that could take tropides no matter what its size. Note extrept undercarriage detailing and the use of common pin-heads for the very offertive grille area.





Brenner's version of the '40 Ford is a smooth dustom without any guady frills. Nearly stock, the car wins big prizes on the outstanding quality of construction.



CUSTOMIZE

ROBERT E. DAVIDS

THE building of model cars has rapidly become one of the most active hobbies in the world—and, what's more, a's growing every day

There are many, many reasons for this. One of them is the fact that many boys and men love cars. And creating them in model form is one way to assemble a fine collection of cars of all types production cars, custom cars and hot rods — without spending a million dollars, or some other equally impossible sum — in testing these ideas in full-scale machinery.

There now are to many different modes kits on the market this anyone can find just about any make, model, body style or type. And if you as yet have not put together any kits, and you have the urge to do so. it's suggested that you start with some stocker or kit containing factory customizing parts preformed to fit we

This will allow you to become more familiar with the materials and tools needed. And, in addition, the projects will familiarize you with how to use them.

For those enthusiasis who already have built and detailed many model cars. There may be some questions us to how to go further in customizing. This stage of design may often be a difficult one—
If may stump you but it should not stop

you. Customizing simply in the art of individualizing, and each individualities has own preferences, his own likes and dislikes about every car. Then is what rankes a custom out of a stocker and gives the builder so much pride in the accomplishment. It is sure to be different and, to the builder then will not look like any of a hundred or thousand other cars on the road.

Many model car builders have found that by sreating a model in custom form of his own furi-size car, he can expert ment with versions treasments, shapes and restyling ideas before proceeding to work on his own street machine

There are many benefits to be obtained from the science of building model cars. It is a real education in patience, as well as in craftsmanship. These are two qualities it is well to develop and which can be later applied in many forms to other kinds of work and study.

Now, how do you customize' First of all start with the production cars. Whatever makes or models you already admits. Pontage, Chevys, Fords, and so on. You should give this careful thought. Perhaps even make a list. Then go down the list and decide what it is you like most about each car You'll find yourself thinking in terms of side treatments. tops, front ends, rear ends, tailights, interiors. You'll go right down the line. And as you study the various positifilities, try to imagine how various shapes, tail-

lights, headight treatments might look on other curs. Many times just laking he loo from one car and fixing it on another along with completely cleaning up the some, deck and removing door handles and other little chronic own ments that the factory anached — all his will often produce quite a radical change

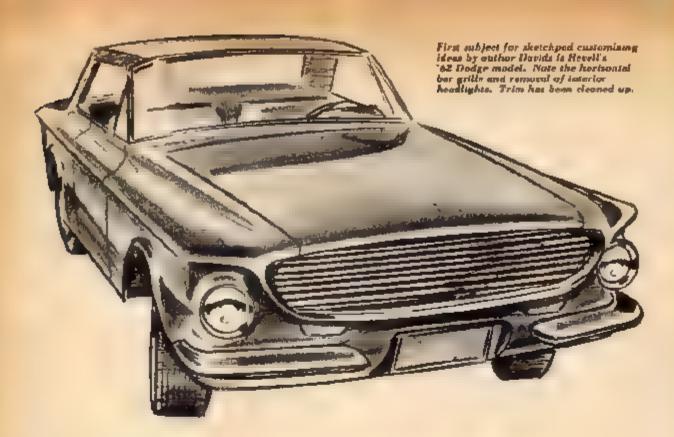
The usual first steps, however, are the front and rear ends. Nothing can give a our a more apparent change so easily as altering the grille. The grille of an automobile does much to establish its personality, or at teast the initial visual impression.

The custom tube grifte is the big thing, along with many of the wild textures hat can be made up from metal stampings and easings. Most such textures can be found in hardware stores and lumber yards where building supplies are available

This is just one example of how you can proceed. There are hundreds of other little goodies that can be utilized or reworked for custom parts. They can usually be found just by looking.

Regular custom parts for models are more abundant, too. Revell's Custom Parts Shop has many good items. AMT's various kits are a source of many more. And just about all the other companies that make modes cars now have some custom parts available.

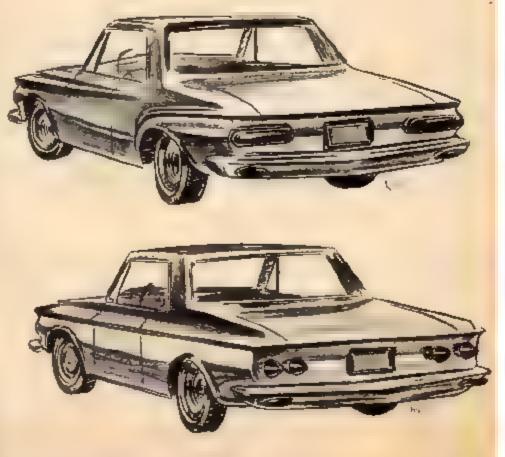
One other very important area is the



building by hand of parts specially stated to your own particular project. Some pasts often only can be made by hand th order to obtain the exact shape or item needed. When you do this, then your model is almost assured of ranking es tops. For in model contests, it is the special touches and added features that often count most. They bring the extra points. This is the limshing louch that makes a real winner. An extra few minutes, or an hour, on a model can mean the difference. So always take very good care with each step and do it the very best you can. Then if you are out to win a context, you'll be a top runner

There's nothing better than some very specific and practical examples of what can be accomplished in customizing model cars. On the following pages we are giving a selection of very carefully arranged ideas that are recommended for study Look them over You'll find them especially worth white

Two variations on roar treatments for the same Bodge kit. Tailights above the from '61 Pantise while those below are foun Revell Custom t or Paris rack. There is now ide treatment below with front and soor jender lines junced





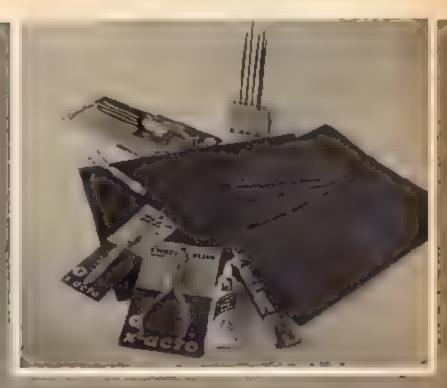
WORKING WITH PLASTIC

Mass of the mode our has that are a control as and a me made is as one passed. This materia is a cheed by AMT Revel Money miles for the Lindberg Sa imbocker Autorn and Howk, as well as orders Obsained his means that the materials you work with mile to be those inconded for use with attent plast. This is organism. Keep in minute.

In the give department we find a samety of primites of fried by various model manifecturers. Reve has what it can be perfectly discovered by different is also good. Mittingship has a similar type of give Testors supplies a content supplies appearing to add on sevene and a second for styrene in all cases, the gives are good but the quid coments are most satisfactory when used correctly.

This is done by finlowing some basic rates. If stomps apply the cerner in the grace area is no bonded and do not the cook area. It is no excess area in just in lens he area to a greater depth and area in ger to dry. Too anch was often much home a even change the shape of the name in which it is applied. Another good him is a work with a conditional.

Another very in posture ingredient in put y brampie here are ANT's body



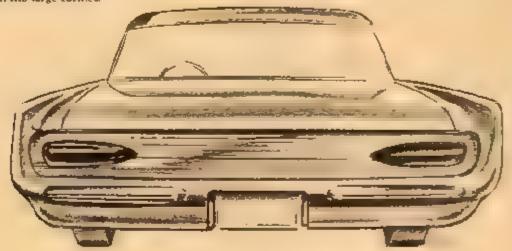
poorly and Directive Surfacing poorly. Forlow if a instructions on each type. It is
especially important to augh sigh
the area to be foled. The 400A sandpaper before applying the put v. which
will enclurage superior adheson to the
placte. When one use the pitty it in
smart to apply several him only being
each equil div before applying he rest
one. As a matter of fact this will cause
the putry to dry faster than if the entire
area would be illed heaving. It is a good
ilde to wet sand the picted areas with
if it is a set to the will a set of the course.

Painting is a two step in model building and one of the most embed. It is good to know that paint will not cover disguise or hide imperfections completely. Be suite that all areas are well finished it is only burnan to be eager to see what the car will took the when i is painted. But exercise a little residual Take a reach given took at the mode hist before painting. Make sure 1 is right. Then go ahead.

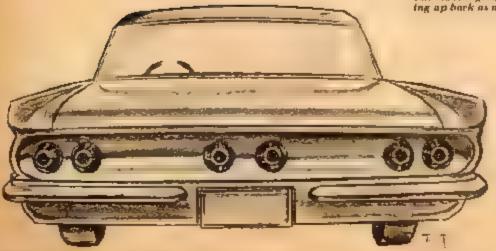
of his pain's assulable as again find a good one and the advent of he spray can points for pastus was a highbook. Abilit has a fone selection of the condy colors. Testors upon a monthly is one of the best located money building and hy experienced money building and a made to work some or on.

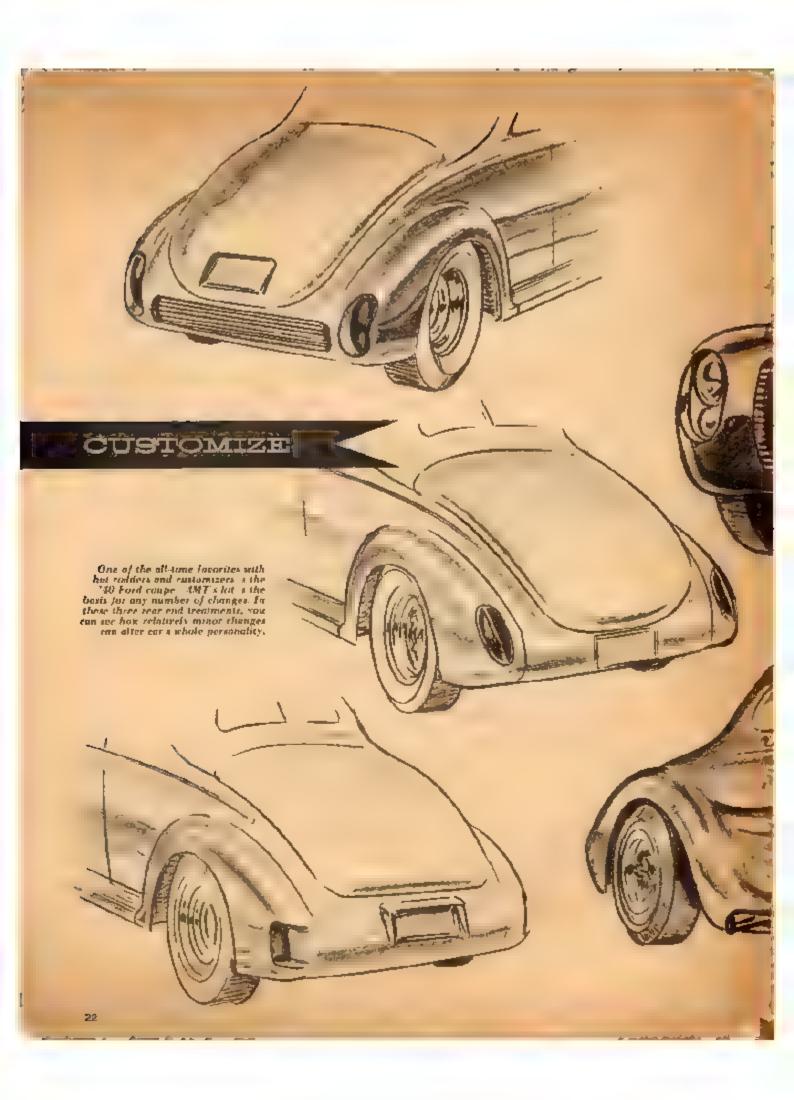


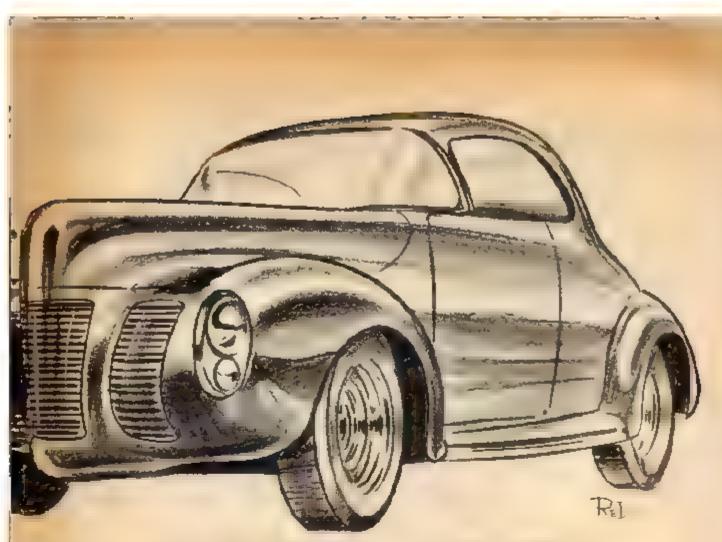
Another approach to the Pontiae sees the use of a larger bar grille. Single headlights are highlighted by the use of a new pender line. Then the big pan underseath with two large carlies.



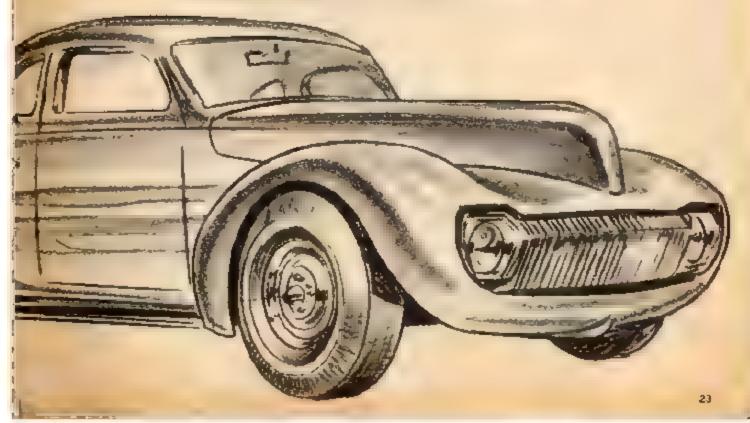
Reac and tecative at the site time of parallelities. These two Pontiae drawings show how you can make a great change in playing up back as a gelde or cavity.

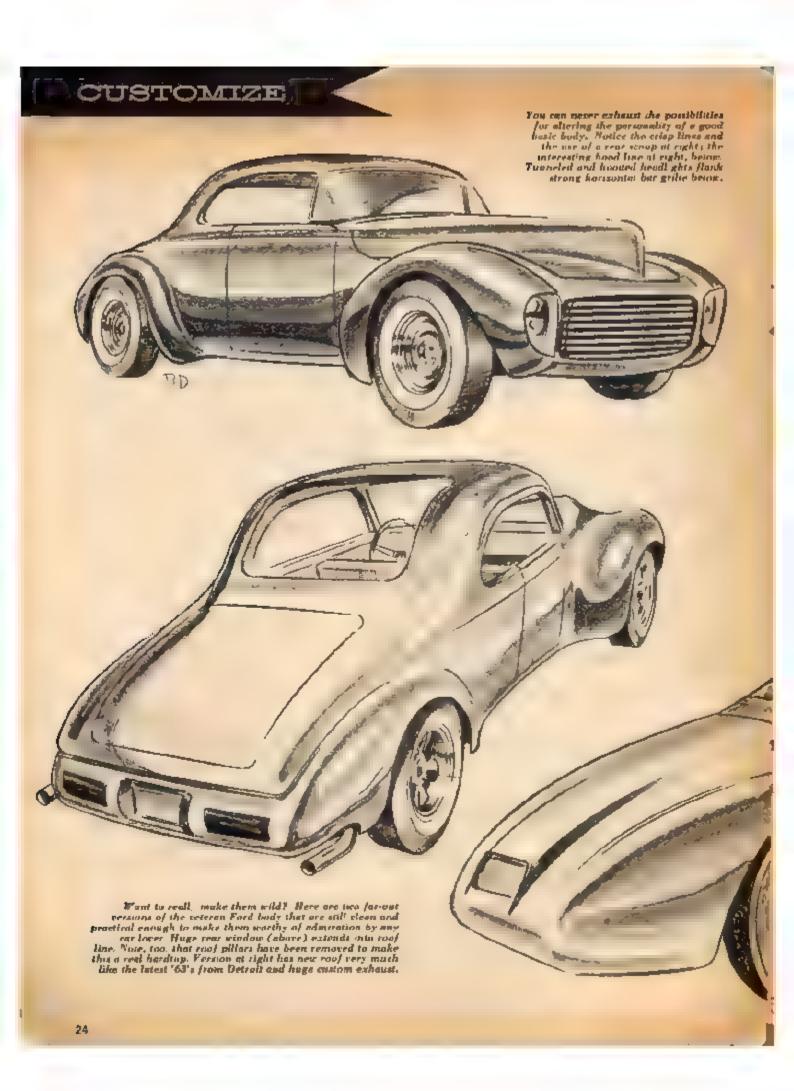


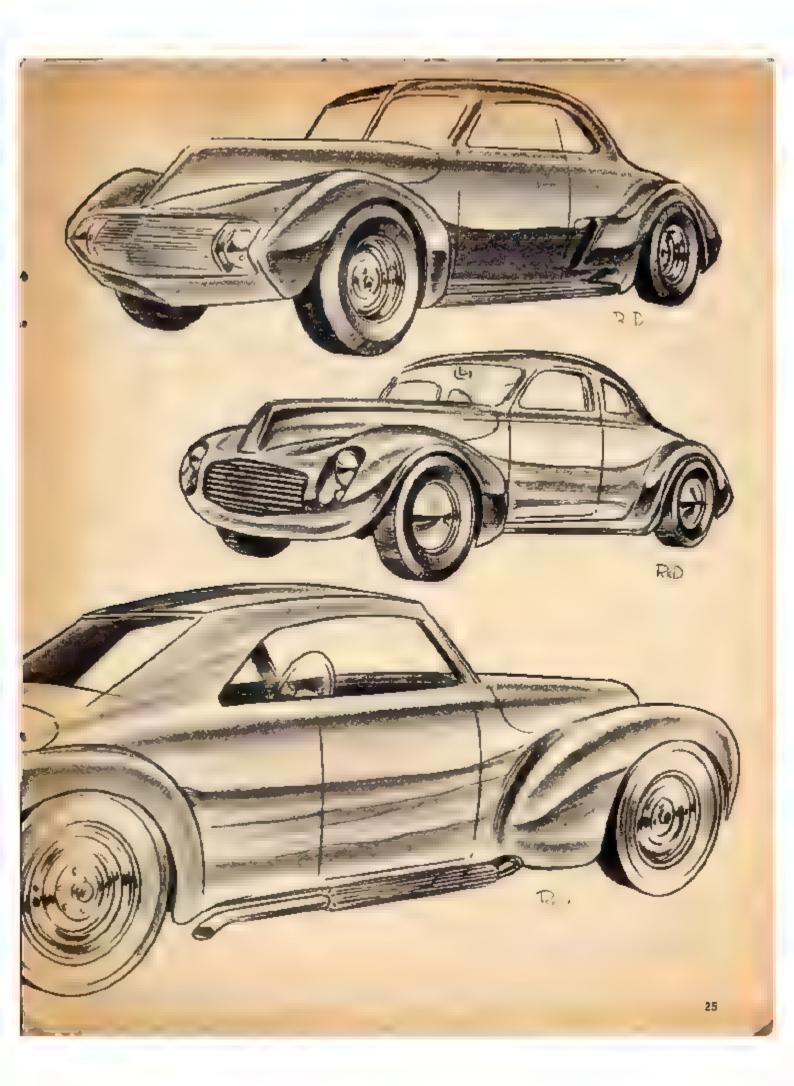




Headlights and gelile offer two big areas for the customezer to do his stuff I sique cavity containing different use tamps (above) adds lighting distinction. Grille similar to '62 Dudge does even more (below)









Preparing to paint with increase, you can make a simple stand for the job by banding an ordinary cost langer. Another preparatory job is to sand the car with fine paper.



You make the one hook eight anto et new each. It is ready to begin the lucquer process. This point drive factor than onetical, has a high gloss and features true translatence

PAINT like the PROS

...with lacquer or enamel



Prime the entire car with 4MTs primer. Famous our tomiser George Barres possess out that the dops you follow are exactly the same as those in pamiing a full-use car.

ASK the fellow whose models win trophies and he'll tell you that nothing beats the sense of satisfaction derived from a perfectly finished product, assembled correctly, painted correctly — a gleaming at de gem of a cur rivalling the beauty of any smooth job out there in the garage. In spray painting a model car - as with every skill or sport there's a right way. This may be more time consuming perhapt, demanding greater care and the proper quality parate and materials but it's the only way that produces an end result equal to the time and effort expended. This article endeavors to present the techniques and profemonal tips on apray paining with enamel to help you achieve the goal every modeller wants

Materiols

1 Soft Spray Paints in the colors of your choice. Two-tune cars are very popular, with interiors matching or complementing one of the exterior colors. Your personal taste is your only limitation. One leading paint manufacturer,

Pactra Chemicai Company makes Soft Spray 'Namel in regular, metallic candy, and provincie finishes in every color imaginable. Remember, candica require gold or silver underconter

 Masking Tape — for the more experienced modeller who paints his earafter assembly. When painting the body for instance, he masks off the top.

3. A spray booth and turntable are optional, but recommended. The spray booth which can be made from a corrugated box prevents paint from apattaring surrounding objects. The turntable prevents fingermarking freshly painted areas. To make this, cut a piece of paper board in a circle and fasten to bottom of a coffee can with after

4. Aero Gloss Rubbing Compound is recommended for use between costs and after the finish cost. This is an oltrafine abrasive which removes any foreign matter (hair, dust) which may have dried into the paint

5. 400-600 grit sandpaper (very fine grade) to sand off possible overspray

Preparation

- 1 Spray painting is best dose at room temperature 70-80°
- 2 Select a well ventilated, dust free area.
- The surface you are to paint should be clean and dry
- Decide on the colors for various car parts. Then group together parts that are to be painted the same color
- 5 Open up all holes in the plastic parts and remove flesh from edges
- 6. Secure parts to a piece of cardboard with masking tape.

 Pointing

 Shake point spray can a full mittage before beginning to point.

2. Spray approximately 10 inches away from the article. Spray motion should be back and furth, not up and down. Each pass of the apray should start ahead of the object and continue beyond it. The secret of achieving a professional finish is to work steadily and evenly, keeping the apray cone atways in motion. Do not spray in bursts



Although largues direc extremely fast (15 to 30 minutes) you can speed the process with the use of light buth.



After the prime is dry, soul it slows so that the surface will be ready to take on the gloss of the sucques



You want to keep all of the detact on the hody sprince. Use your knife to clean out the prime from all cracks.



Gree the prime a final rub-down with cloth. Now apply the larguer For Kundy Kolars (the real thing with AHT) put down a base cost of gold, followed by several costs of tone.



In applying the coast of lacquer, don't sum for the desired color with the first application. Do many light coast; build up to the color you went without loading on paint.

or hesitate between passes. Keep the spray nozzie at the way down It's a good idea to practice on a piece of acrap to get the feel of the motion, and see the effect

3. The first coal should be very light Don't be concerned if it appears faint A number of light applications gives a richer firish than one heavily applied coat. Spraying too heavily results in streaks and runs. Pactra's "toff spray" action is especially sultable for this resear. Your colons are misted on, giving the smooth desirable result.

4 Wait 20:30 minutes between coats, Special Tips for those Special Contry Colors

They look good enough to est, but they do require some special — though not difficult — thanding

 These are translatent colors and must be applied over a gold or silver undercoater

 First cost will show up weak and uneven, but color will even up as other costs are misted on. A build-up of two or more coats is essential.

 Pinish cost should be sprayed on very close so it almost flows on Finishing Touches

After finish cost is dry, apply rubbing compound to remove any rough spots. Then, if desired, apply a cost of wax for that extra shiny finish — and added protection.

To illustrate he effect this little bit of extra effort bits — one user of Pactra's Aero Gloss Wax reported to the company that his model happened to be left outdoors during a hurricane in New England and when the model was found several months later, it was completely intact and looking as if it had just come out of the paint shop!

Spray Pointing AFTER Assembly

Though most beginners paint before assembling the model, many profesiont modellers prefer it the other way round. They say only in this way are parts of the same color exactly matching. If you use this method, said off any excess give and remember to mask off areas of



In painting with enumes, you can build a simple openy booth with a cardboard box. Small turntable is also a necessary accessory.

contracting color. Never the masking tape on cardy colors, as the underconter has a sticky consistency which will adhere to the tape and pest off with it after Families.

Always clear the spray noticle by inverting the can and spraying for a few seconds. If on re-use the nozzle is clogged, lift it off and clean by inserting a pin in the spray hole and running your fingernall through the slot in the spray tabe.





Decide upon the amount of side panel that you want to remove. Measure the amount exactly from bottom of body.

BY GEORGE BARRIS

SECTIONING

the '62 Pontiac

AMT's custom styling consultant shows how to make a stock car look sleek by lowering its profue



San shady and evenly with a jeweler's saw. If you have trouble following the line, use marking tape as a guide-



On over the entire oven that you have out and sould it to that you have a clean and soon surface. Sund out said slips.

When it comes time for the radical restyling of a body shell, the full-size customizers have one major procedure that always accounts for sleak lines. This process, called "accitoning," is the actual removal of an estire area of the body panels. No man is more familiar with sectioning than George Barris, the famous king of the customizers. Now, as AMT's styling consultant, Barris offers his knowledge of auto restyling to today's modellers. On these pages he shows you how to turn this great styling trick with AMT's popular '62 Pontiac model, This particular car was chosen for two reasons: It has the long, clean lines that sectioning truly highlights; and its basic shape is such that sectioning can be done by removing paneling from the bottom of the shell, cuber than out of the middle (a much more difficult process)

Now it's time to prepare the body shall for its final finish. Give it a smooth cost of AMT's primer. Paint cames later.



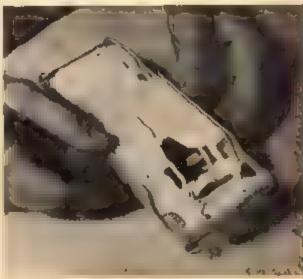
Ship the undercorriage into place and measure just have much a cut of wheel wells and estaching bosses is becausely





Protruding wheel well area is cut with a picelor a saw in the same manner as the body shell. Sand when done.





Cut off the excess of the attaching bosses with a pair of dykes or pliers (left). Now you'll have a perfect fit.



If you're not satisfied with stock interiors, you can odd that real custom touch with the few materials at right.

Beauty on the INSIDE

With model car builders increasing their skills so rapidly, today's model contests are often won by the man who has added just that little extra touch. There is no other bit of finishing that does more to add winning appeal to a top car than custom, finishing of the interior. On these pages you will find all of the easy and mexpensive steps necessary to give your car the look of beauty on the made.

Materials needed for this quick up-holstery job are Scotch brand plastic tape, styrene give, Tuck brand chrome tape, leather sacing, seissort and an Xacto knife with at \$11 blade. All or most of these are available at any well equipped hobby shop. If you have trouble finding the leather lacing, consult your phone book for the name of the total distributor of the Tandy Leather Co.





The first step in making your custom seats to to cut the leather locing into strips of approximately 2 ½ inches.



Apply the strips horisontally to seat after applying coment. Do two or these strips with each application.

Nothing gives a model more winning quality than a custom upholstery job



After all of the stript are in place, teim the ends neatly with science. Be suce to remove all excess comens.



Now take the plastic tape and cut waterp that is the width of the wal. Trim evenly with your sciences.



Use your fingernall or the end of a blust stick to press tupe down over leather surface for Naugohydo effect.



Trim the edges with selectors and Xactuknife. Stretch the tape around the udes and the corners of the seat-



Here is how you're finished upholstery job thauld look. The deep pleased look matches the best of the big curs



A final touch is added with the use of chrome tope. Cut a piece inflicient to cover the side and edges of the cost



Apply tage to clean surface and rub with finger or soft rloth. Be sure that all air bubbles are removed.



Finish off the chrome trim by very carefully cutting the edges with seisnes. Take your time here.



Door pends and headiner can be frommed also with simulated Vangahyde by using the exact same methods as seats.

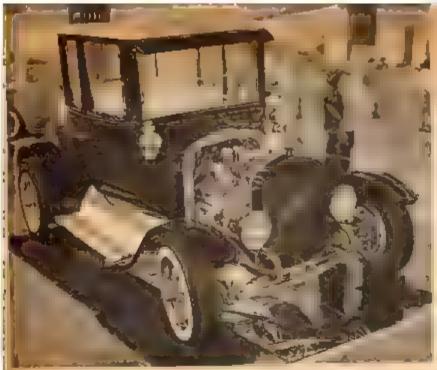
GREAT BIG EXAMPLES



There isn't a model car on the next six pages, but there certainly are the ideas for the creation of a thousand model originals. The great full-size cars that you see displayed here are gathered from the pages of our sister publications. POPULAR HOT RODDING and POPULAR CUSTOMS. These are but a few of the customs and rods that auto enthusiasts across the country are creating in their boday of building and driving beautiful machinery. We display them here so that you can see what a world of model building ideas already exist in the big machines. Study these cars carefully Each has more than its there of originality and practical procedures that you can duplicate in plastic.

One of the milden show cars in the country is this competition coups built by Coorse Envis and John Geraghty. Note engine,





No body shell is too old for custom treatment. The ancient Model 'T' Fard remains teey popater with today's elever customizing hot rodders.







Full-size classics are the "El Mandor" (above) and tha beautiful '32 ford Roadster (left). See model purubilities?













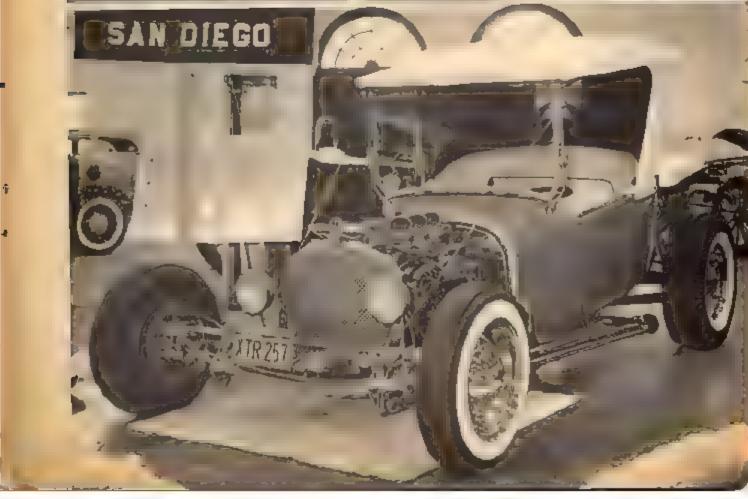
YOU DON'T ALWAYS HAVE TO BUILD MODELS AROUND NORMAL ENGINES. THIS DRAGSTER IS POWERED BY COMPRESSED AIR



Roadmers are probably the favorite subject of the specialty our builder. You will find more examples here than for any other style. Receifs new body shells (see "First Reports") will be a big help in making some of these models.









GREAT BIG EXAMPLES

Front or root, you can be as dering as your imagination allocs. Build, strong highlights are many times more effective then small and mars difficult detailing. Don't forget trunk.







Critics will offer the ben area for the costomizer's art. Many textures and materials are available to help you follow the example of these prize winning show cars.



Pickup trucks area't fast work-horses. These condition purkups are typical of the many that are always great favorites at car shows. They're as practical as they are practy

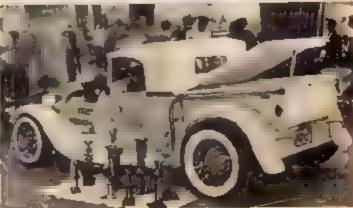






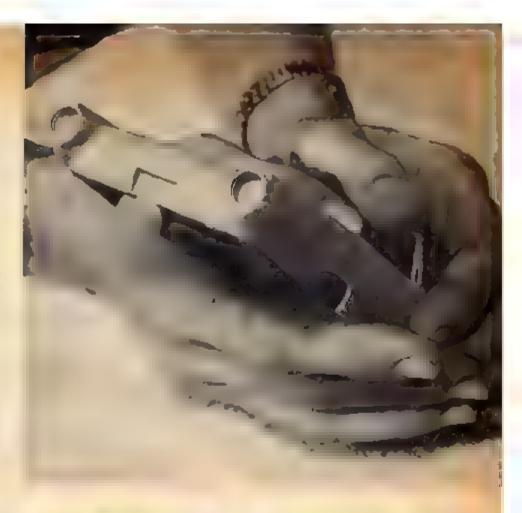






Bird Pan On A PONTIAC

George Berris, AMT's styling consultant, gives us another tip here in the colestal world of customizing. Most modelers agree that one of the most sattifying aspects of model modelying is finding sattraced body somponents that go together with style Burris has found such a match from two of AMT's 1952 model tits. As you can see here, the 62 Pontiac takes on a whole new appearance when its pormal rear end configuration is swapped for the pan and tablights from the 62 Thunderbird. Here is a restyling job that can be done in a very short time.





Two components are almost perfectly mated. Line them up to see feet where alterations will have to be made.



File the Thunderbird pan so that it will fit around the projections that you have noted on the Pontiue.



Using a jeweler's ame, cut off the Fondac's attaching homes. They must be removed completely for fit.



A file is the tool necessary now. The ends of the Pontine fenders must be fluttened to mutch the 'Bird's shape.



With both sections glued together, there will still be a few had foints. Use AMT's body putty to fill m.



Corofully finish off the body putty Jointa with a file and sundpaper, Ness prime the body for the paint job.



Assemble the frame rails and bracing from the basic drig frame parts you'll find at Ravell's Lustom Car Parts Shop.



describing the all chrome angine sees the use of a wide variety of the bottom speed equipment in hat codding.



When the entire powerplant section has been assembled, it is mounted into its frame curriage with styrene certain.



Big M&H Recementer dicks are mounted on the year aids. Small cycle tires go up front in true designter lackion.



Big power touches are CM supercharges and throme exhaust stacks which are remonted into header plate holes.



Final procedure is the installation of the body panels, steering wheel, shift lever and perachute pack behind driver.

DRAGSTER from Scratch

Ed Roth, "Big Daidy of the customizers, may design with a wild hand but when comes time to produce top models, he is mighty practical. Using nothing more than a fingernall file and a rube of coment. Roth speed it assembled a speedy dragster in ag no other parts than those found in Revell's Custom. Car Parts. Shop. Parts needed from the 1/25th scale line are the basic drag frame hit. American Racing MAG competition wheel set. M&H slick competition are set, cycle ares and a Chevrolet V 8 engine.









America's fastest growing hobby is an exciting sport that gives model enthusiasts the opportunity to put their cars to the test of true competition. On economical tracks, with simple electric motors, that racers match driving skills and the hasic design and construction of their cars. If you haven't gotten behind the controls yet, you are mussing a new world of model thrills,

On the following pages and in coming months, MODEL CAR SCIENCE will present the news of slot racing and informative articles on how to make your car a winner. We urge you to join the table top Grand Prix . . . Get your model cars in the "groove."

... MODEL CARS IN ACTION





build your own TRACK Do it yourself. for less than \$20 you can have a championship road racing course TRACK

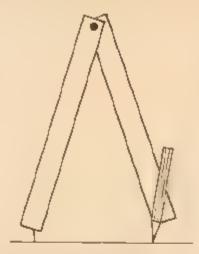
By Bill Sippe!

THE original working idea of table top rawing started in England in 1954 MODEL MAKER, an English magazine, saw great potential in this new hobby and devoted time and space to ft, beloing- it grow into organized rucing with set cules by early 1955. By this lime it was picked up in the USA and internut conti meets were taking place. But I was strictly a do-h-yourself system, with nothing of great abundance available commendative

The big public introduction to the holby in his count , was made by the model industry - a progressive and rap ally expanding industry devoted to the manufacture of Alts and sets. This year it has really lift a boon, become the hottest, fastest growing hobby around. In no other way could it have reached so many people so quickly

Now that the introduction is over more and more people feet they would ike to build their own table top course There are many basic reasons in favor of home building, so jet's explore the

For one thing, you can build a track for less money material costs being less than pre-built track per racing foot. You can also build any design you choose, whereas you are limited to a great degree by commercial track - such as radii, etc. You can come up with any number of anes you wish, odd as well as even.



In laying out your course, you will need a life company. Here is one that can be made easily from two boards, rails, a pencil, a nut and bolt

You can chicane any degree you like or ase in-line racing when desired. And, mainly, you can build a better track

The ideal track must have a smooth surface and con act area plus good to bite. It should also be jointless to as much a degree as possible. This allows you to work toward better cars, tunns steering, suspensions, etc., successfully There are cheaper ways to build than the way we list here, but they represent operative and maintenance problems, uneven slots, etc. An example is jog and

mosaw cutting of sections and applying them to a sub base. This lamination style is hard to control and uniform width of the slot is very important. Just as important is maintaining equal height or road surface level on either side of the slot. Therefore we prefer the solid sheet style, ententaining uniform sunning surfaces. The routed slot is always controlled in width and depth. Our main running authore in particle board 3/8meh thick. It is very economical material and gives good tire adhesion even wheat unpainted. Power routers can be rented if you can't find a friend who owns one Needed items will be at the end of the acticle

Your first move will be design layout. ofter you have decided on the size and shape of the table top to be used. Various designs can be laid out on sheets of paper to scale. (Usually one inch equals one foot.) Allow a minimum of three mohes for each tane. In the turns add four inches to the autside inne to allow layout and eliminate riding the fence. It is always wise on a home-built course to have a minimum of three lones. In this way if a car spins, there is still a race going on. If you incorporate a bridge as some point, creating a figure eight, however odd thaped, cars will travel a nearly equal distance. A non-cross-over or grside loop design will give one car the short way around. This style layout can



Here are most of the components accessary to prepare the particle hand for your trucks original plans, home built compass expanding rauser guide and the router hits



After you have your basic design in mind, it is time to transfer it by penal to the particle board surface. Using the big company you much lines and center radius points.



HERE THEY COME DOWN THE STRAIGHTAWAY OF A HOME BY LE COURSE YOU, CAN DUPLICATE THE WORLD'S GREAT TRACKS.



Setting up the couter guide is very easy had at firmly in place at the radius point, more the diding but to the custing drea and tighten it in place with the slip clomp.



figills for your router cutting. The one of right is appealably prepared for the extra routing procedure which is necessary if you want to use the tim contail braided wire.



The use of braided wire calls for an extre recession in the groom. Thus is done with a second routing process.

still be fair his childing ones every few aps in a given race so each car and driver rims on every lane an equal distance

Keep in mind the things you can do that are not postable with commercial track. You can have any radius or degree of curve you wish, decreasing or increasing curves, cheane at any point in straights or curves, one or all laces. You can use in-line racing where langes parrow

through a turn so all cars take the groups as mired racing.

With the final design decided upon, it can be transferred in full scale to the particle board. If you intend to incorporate closations into the design, then must tack the boards in place lightly suthey can be put ed toose after routing in ransferring the design, an economical compass can be made from two buards, onils, peacel, a nut and both. When Jraw-

The router in action. If you can't horrow one from a friend, they are reated in most cities. Never run the router over your pattern "free-hand" for it is impossible to keep a straight line using your eye and arm for guides.







Putting metallir tape in place is a quick and easy operation.

Always "lend" the area you are subbing into place by atend a foot. Press the mpe down firmly with a small block.



Here is how the track surface is proposed for the addition of breided some. Special drib makes an extra recession at the top of slot to allow for the extra wire thickness.

ing the curves, mark all center radius points for ease in location when routing starts. With all radii drawn in, connecting times handle the straights. At points where you wish to in-line or chicane the track, the normal way is to make the destance between lanes one half the standard distance. This is accomplished by pulling back the center point of each larger radiin the above amount over the one previously drawn.

With the design completely drawn out, we are ready to go to the router. Set the cutter so it couls 1/4 meh deep; the router drill will control the 1/8-inch width. The 1/4-inch depth allows ample greatance for the 3, 16-meh guide depth allowed by international rules. You can not free-hand with a power router successfully. A cheap method of router control is two 1/4 inch diameter rods of enough length to seach your widest radius. One will slip into the router guide hole and be securely fastened. The other rod will have a hole drilled at the far or radius center end and a ship clamp will fasten the two together at any desired distance.

Picking any turn, drive a neil through

the router guide-rod hole into the radius center hole. Telescope the router out to the radius line, tighten the rod clamp and, starting at one cod of the radius, power through to the other end. Telescope to the next radius line and repeat Do aff of the radii first, as in drawing the layout.

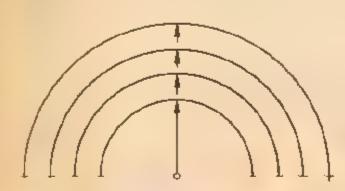
In doing esses after the first radius set has been cut, set the router cutter in the extisting dot end, tighten and clamp and power away from there. This way there is no ansembleh where slots mate. With all radic finished, do the straights. Set the router coner in the slot at the start of the straight. Take a straight board the length of the straight, pull against the edge of the router and nail it down. Repeat this at the opposite end of the straight. Drive in a couple more tails toward the middle of the board on long straights to keep from bowing. As you power the straights, push in the direction of travel and toward the board with quite some pressure to keep the router from walking." Repeat in all straights and this should complete the slotting of the track. Touch lightly along the slot edges with sand paper or a small file to remove

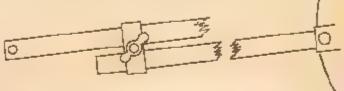
any small burrs. It is now time to tape.

There are at least three widely med self adhesive lapes for track contracts; 3M #425 Wuminum, Strambecker copper and Permacell aluminum. These are all about .004 thickness, so we do not have a surface height problem here. The normal width used as 1/4 meh. In the case of the copper, it may be soldered at mating ends or, like the aluminam, a staple may be run through the adjoining ends. Pricewise, aluminum is the better buy In putting down tape, it works well to pre-lead with the roll about a foot ahead of the area where you are contacting the track, staying upward at an angle. With a small block in the other hand, press the tape down onto the track surface. You can go through turns using this system without wrinkles and do a complete lap with one piece of tape leaving only one adjoining and. Thus should end with the sape overlay in the direction of travel. Continue until all fanes are taped.

One thing to remember while laying tape is to stay 1/32 of an inch from the edge of the slot so the guids on the ear does not peel the tape up in the turns.

Constanted on next page





For standard curves you need just one radius point and carefully marked lines. Diagram above thous the bour components useded to make the router guide for use on the curves. Arms are ½-inch diameter moud rada. One and slips late the router guide hole; the other is neited in place.

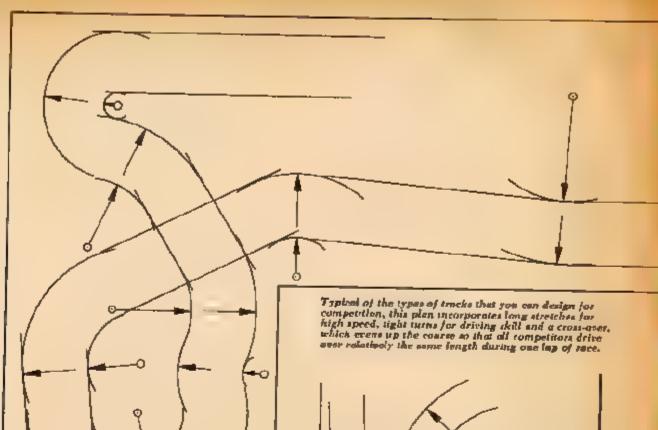


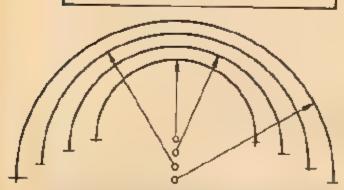
Fin coated copper braided wire affect a listic more problem in construction, but in the long can in the best conductor. It is put in place with 3M \$1257 bonding agent.

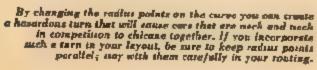


but the wonding agent to put the broided wire in position.

When completed, this set-up gives extra long life and
good contact with little or no maintenance involved.







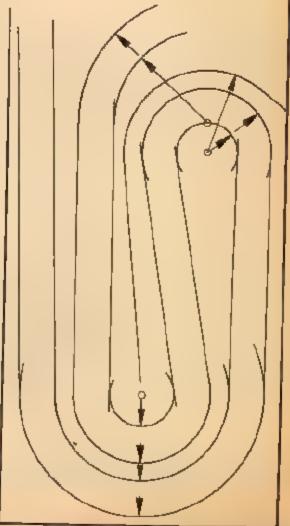
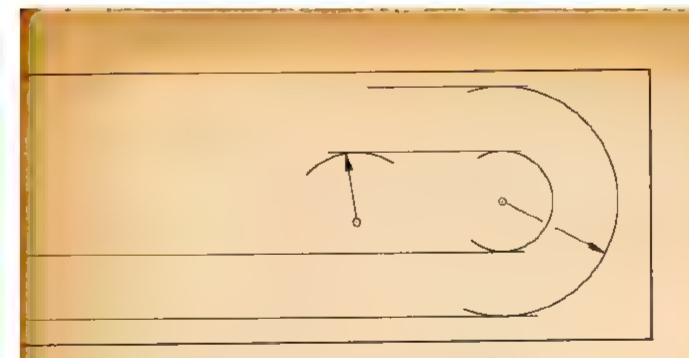


Diagram at right illustrates just how much track can be pecked into a small area. This type of curve design also lands itself to elevation at one and. Track can be retained by the builder only after the routing has been completed.



The delute but more expensive way of taping the track is with tin coated copper braided wire. This is manufactured by many companies for ground straps in the electronics, asteraft, and television fields. The normal width used in this way is 3/ 6 inches wide material and 020 to 025 inch (bickness). This thickness creates a problem if left on top of the surface as it will trip and flip cars in the turns unless you are a very experienced rail racer. Therefore it must he recessed into the track so the top runming surface is flush with the track runrong surface. This can be done with a complete repeat performance of rouling the track, only going much faster. Using a router bit 1/2 inch wide, do a compiete rerun of the track, only this time just making a skim cut of .020 depth. A faster way yet, if you are equipped, is . . . pick up a surplus aircraft drill 1/2 inch diameter, with the open center, or a standard 1/2 inch diameter drill. If aiscraft, bush and insert a 1/8 inch pilot shaft. (If a standard drill, grand to 1/8 inch pilot shaft size on the ead.) In either case, sharpen the main drill flat as a milling cutter so the cut is flat. With this system you can just run around the track, the pilot running in the slot to mude your freehand operation. With this system, after routing, bond the braid to the recessed area. Bonding agent 3M #1357 works very well. This is a track that just doesn't wear out and gives good contact with little or no maintenance.

With the contact material in place, it is time to wire. To be set for International racing, the positive is on the left and the negative on the right, looking in the direction of travel (see diagram).

If you make elevations you must decide where to make the cuts. Make your cuts around the areas to be raised and then pail the flat areas down solidly Pull the other areas to the elevations you desire and block them there through spacers between the underbase and main track material, ruiling everything in place. In making the cuts be sure you allow enough material for layout areas in the turns no cars cannot ride the fence. In cases of elevations, do all routing before raising, including braid recessing. Then, and this is important, raise before taping to keep tapen tight.

You are now ready to run, in far as the course is concerned, and cars run on the plain surface with success. If you paint, rubber base materials work well, and some people like to top the paint off with non-skid wax.

At a later date we will go into decorating, buildings, and accessories. We have had as much as 32 feet per lapfour lanes, on one four-by-eight-footsheet by using chicanes and in-tine turns. Using tape, including paint, main surlace; underbase; router rental and bit paint and wire, it represented under \$20,00 cost. On a bugt 24-by-six foot, plus a two-by-eight foot wing, 94 feet per lap, four lane table top (using braided wire and all above mentioned materials) this unit ran under \$100.

We hope we have helped you. If it sounds like work to you, we may have saved you the trouble of starting. If you feel building is half the fun of rating, then right here you have the first half.

If you wish to rece only 1/02 scale core than you can build to 2 3/4 inches between slots, if 1/24 scale only, then 3 1/4 inches between alone, for both, one the compounds of 3 inches between alone.

as Make sure the router bit in the wide side to the slot wall to keep perfect officients of adjoining with.

are it you wish to use a protective calling or funce, beloscope I inches beyond the outples stat and more enother stat. Into this inters a place of 1/8 Inch Mosonite with bonding agent, procur to the height you delire.

MATERIALS LIST

4 feet by 8 feet positife board shorts for running surface 3/8 inch shidness

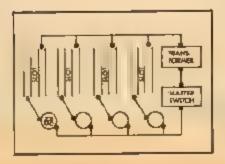
4 leat by 4 feet flyscerd plywood sheets for undertices 3/4 linch to 5/8 linch thickness

Alaminum or copper tops 1/4 inch width, or 3/16 inch braided wise and banding upont Power conter — rental

Rauter hits, nither Studier #204 or Parter

P1204 for 1/5 by 1/4 slet Noife, screws, point, bresh, who, six.

16 breided, & 1/2 Inch drift or revier certar



With tope in place, his time to term. Put positive connection on the left and negative on the right (looking in the direction of travel). You can use old model redronding transformer.



All-out speed down the slot

Not all table top racers are made for the sharp cornering competition of a sports car track. One of he most popular aspects of electric racing as in straight-line danging competitions of sheet speed. Running a scale quarter mile 155 (eet) under power, the little hot rods turn amazing times. They have gone through the traps in 136 seconds and reach speeds over 60 true miles per hour. Cars are rain in various classes which are determined by the voltage used.



A typical electric dragater thoses off in the company of a proud owner i garage of competitors. This long 'coil' foliou capable of last-breaking wheel-stands (see above).



The little hat rade are timed in their runs with the complete electronic accuracy of Chrondeli clucks. This is the same equipment used at the nation's leading full-use drog strips.

One of the most interesting cars mailed in for the Speed Show competition was this little Mini from M. C. Pannett of England. (as has unique four wheel drive. Lap count was kept by a re-worked pin-bak machine (right).

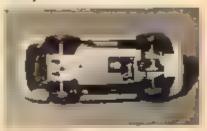








A real racing etable was mailed in from Michigan by Pote Hagenbuch. One chasts and three bodies for various racing estegories were included. Underside of chassis is shown below.



SLOT RACERS AT THE SPEED SHOW

One of the hig events of the year in the automotive world is Mickey Thompson's famous Speed Show in Los Angeles. The fastest cars and most beautiful castoms are on view in a real world's fair of great machines. Prominent in this year's event was a crowd-pleasing display of table top mong. A great new reack was built for the event by MCS Bill Sippel. Each night cars, mailed its from all parts of the world, competed in thilling faces.





Ramp jumping (correcting of) of side ramps), aerobatic dodging and maneuvering are just a few of the tricks that can be tried on the Turnpike Another big feature is the crossever truck median (right), but drivers actually have to steer into the change

The most redical departure in the field of table top racing to appear within recent months has been the Authentic Model Turnpike of AMT Departing in many ways from the standard slot racing mechanics, this set offers miniature racing enthusiasis the chance to actually steer their cars and to consiste racing even though their vehicles may tiple out during the event

key to the highly sophisticated handling system is the set's unique steering and control anotherism. This compact "train" is small crough to fit is the paint of a hand. It has a steering wheel toperated in the same manner as that of a big car), speed regulating levers on either side of the wheel and a reverse gest switch Another distinctive property of the 1/25th scale cars to quick-change two speed gearing which allows the operator a choice of two distinct ratios.





With the carriage in its proper position below track t surface, car is clipped over procuding guide pin. Connection is easily broken by applying a little appears pressure.



The hand held steering and speed control unit sends six indicadual electrical memogra to its car power on or off, forward or reverse speed and right or left steering.



Special track for the turnpike is designed for easy assembly. Interlocking features allow multiple sections to be fitted together quickly. Teach has a textured surface.



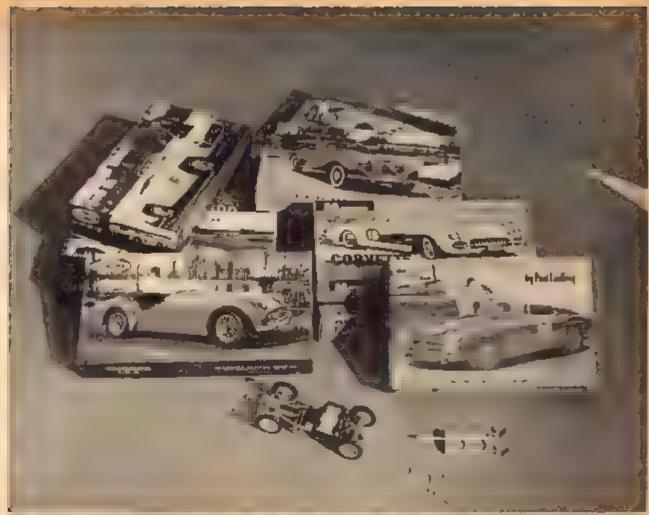
The I/25th scale models can be ensteaded or built into original racing creations. With relatively minor charts modifications other body shells can be adepted to track.



Here is the method in which the decoder is attached to the cur's forward proving arm. This arm gives the car added steering action from side to side as it manuscris.



Cars can open out, crash or even reverse discretion but the driver can will right them and get back into action without using any other control than his secring which



PILK ALMOST ANY SPOR SICAR KIT AND YOU WILL FIND A BOOT SHELL THA WILL FIT EASLY ONTO THIS RACING CHASSIS

Convert your Model Cars to SLOT RACERS

Here is the step-by-step procedure on how you can put a racing motor and chasses beneath the shell of any inexpensive plastic car shell

I'M home building an electric racing car, nearly any plastic kit on the market can be motorized, regardless of style or size. At later dates we will cover other styles of case and advanced construction. This time we will build a road racing sports or OT car

For a newcomer it is wise to get started right. If you should become an enthusiast and stay with the hobby full scale, you are ready to go. There is a tel of rules, established years ago in England, that is accepted throughout the world. With this standardization, cars are mailed all over the country and overseas to compete against one another without problems. We will build keeping this in mind.

By Bill Sippel

The most commonly raced scale size is 1/32, with 1/24 being the other socepted time. In sport, GT and GP cars the manufacturers in America do not give much variety and nothing really current. Many enthusiants build their own bodies and a few low production groups make the latest in racing bodies in the proper scales. There are also some nice bedies made in England. However, to stay in the learning state we will recommend an existing plastic kit. For a first car we will keep it simple, mexpensive, yet fast. There are quite a few choices; from Aurora, Lindberg, Monogram and others, canging from Iwentynine to severity-nine cents each.

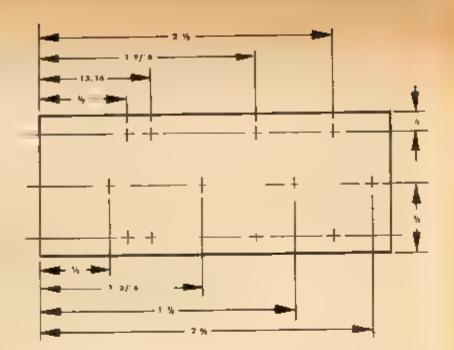
After you've made your choice, with the body only glued together minus the floor frame, axles, wheels, etc., we will start the frame. This will consist of one pions of breas .025 thickness, 2 1/2 inches long and I inch wide. Measure in 1/8 inch from each side of the brass and scribe these lines the full longth. Measuring from one end, which will become the rear scribe cross lines at 5/8 13/16, 1 9/15 and 2 1/F inches. Meanungs from the same and, scribe a 2 3/8 Inch line intersecting a line at the center, or 1/2 inch from either side. At all the above points drill or punch 1/8 inch

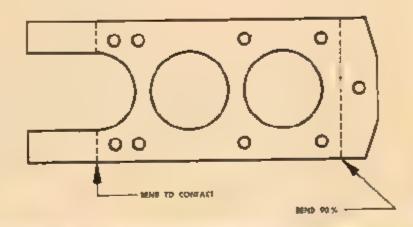
Your slot racing chauss is built about a bress plate aftered to these dimon sions. Holes can be cut with a drill press or mexpensive yough set.

If you plan to make many frames and do not have a drill press handy, conaider a small punch set. Hand Whitney set #5 works well. You will need an open area at the rear so the bottom of the gear can have rotational clearance. In our case we opened up quite an area and added two other botes for lightness and appearance. To make an exact duplication, measuring from the rear, up the center scribe cross lines at 1/2, 1 3/16 and 1 7/8 inches. At these points we punched 1/2-inch holes. On the rear one we cut through from the rear 1/4 each from the edges to the hole, thus comoving this piece. Otherwise, Just make a gear clearance hole or slot. Then, 1/4 inch from the front, bend the frame upward to a 90 degree angle.

Our next step will be mounting the motor with the pinion gear initialized. Using a Bonner motor, run 2-56 screws or self tapping acrews through the frame holes into the motor. (If using 2-56 you must pre-tap the motor mounting holes.) The motor brush end of the motor should be to the front. The pinion gear should be onto the shaft as close to the bushing as possible, giving the most accurate alignment. Cut the excess shaft material off

Next cut two pieces of tubing 1/4







Bearings for the reor axie are 1/2-inch long pleces of Perfect brain tubing. Use either 3/32 or 1/8 inch i.i. (depending upon your choice for the site of the axie thats.)



Small Bonner motor is fastened into place on the browt chang with either 2-50 or self-tapping serves. If using the 2-56 serves, you must pre-tap the motor mounting holos

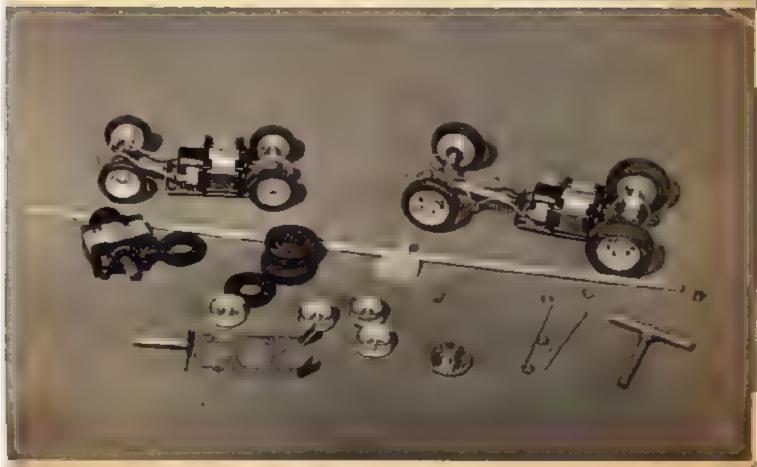
inch long from a stick of Perfect brass lubing with either 1/32 or 1 8 mcb 1D depending on your choice of axle size) With the motor fastered in place stip the crown gear onto the axle and the above cut bushings on either side. Set the crown gent in proper mesh with the pinion . . . proper distance back being intersection with the center of the pinion. Now the center of the motor shaft intersects the center of the axle shaft. In this position bend the two rear frame cars upward, making the bend just behind he rear holes, until they touch the bottoms of the bushings. Solder the bushngs to the frame members and the rear end is completed

For beginners with soldering, preheat

When the center of the mater shoft intersects the center of the axie shoft, bend the two rear frame ears up to touch the axie bearings. Solder these bushings to the frame members.

Two completed racing chassis and the components that go into their make-up, its of these elements are available at your favorite houby supply dealer.









is important to eliminate cold solder joints. These took good but are poor bonds breaking easily.

With the front end of the frame you can go two ways. If it is to be for one our only, you can make your forward tube the proper length to give groper wheelhase for the body you are using. However, it can be built telescoping so it becomes more universal. Also, at later dates, you can build various front ends, steerings, etc., using the same tear main frame we have just completed.

For just-set mounting from the Perfect toba, cut a tube the proper length to give proper wheel trend. Afso cut another bushing 1/4 inch long. Now solder the axio tube onto the top of the wheelbase stem, forming a "T." Then on the front, perpendicular to the track surface and axio shaft, solder the short 1/4 inch tube. Your guide those will fit into this. Now solder the unit to the front of the frame at the hole.

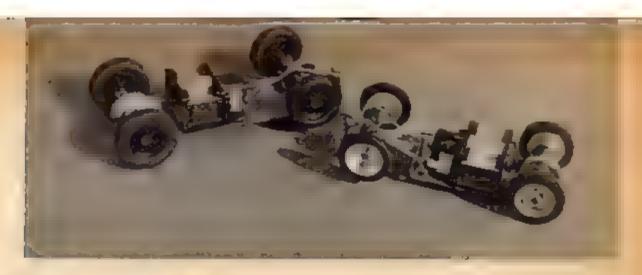
If you wish to use the front end unat in an adjustable state, solder a tube of the next smaller size anto the frame at the hole and slide the front end unit over it tack-soldering it at the wheelbase position you need. This can be released and wheelbases changed in a few securits at any time. They can also be removed for other experiments.

Your frame is now complete. For find assembly, (non) the rear male, using washers (preferably fiber) as spacers for proper gear mesh. Insert the front acle and guide shoe. S(ip on the wheek and tires. Connect wires from motor brushes to the guide and you are ready to run sons body.

Turn the body upside down and set the frame finale, making sure of proper alignment and that no tires are rubbing ate. Then, sick your remaining stick of tubing in past the frame by the monitoring

You can make the front of your frome tetracage to various lengths by varying the rise of taking. If you construct your frame the way, you will be able to change body sizes.

One of the final steps in assembly is to connect the wires from the motor brushes to the guide shoe.





Mounting posts that hold body to frame are gland to the body. 4-40 Screen hold the posts to the frame.

Two completed chards demonstrate just how compact the wait is. One of the most certical factors in that taking is the weight balance of the ear. There must be eaugh weight on rear for tires to bke.

hate until h touches the inside of the body. Mark the length it need be at the frame and remove. Flip the stick over and repeat it the other mounting hole. Out these lengths off-minus the thickness of a 4-40 out. When cut solder a 4-40 out to the frame and of the libe.

Nest, festen the two mounting posts to the frame with 4-40 screws. Set the unit back into the body and bond the posts to the body with epoxys, resins, etc. Be careful of your choice of bonding agent on the plastic styrene bodies so you do not get warpage. Witen the bond has set up, removing the 4-40 acrows makes your chasses demonstable. Numerous bodies could be made to fit the one chassis, allowing you to run in more than one class.

Detail the body as you wish and you are ready to race. International rules call for at least two numbers a minimum of 2 inches high, windscreen driver and exhaust system.

You might find that your first attempt may not run as well as a factory-built car and even cost you more. However, as you get deeper into the hobby you will find the bunte-built car is the taxes and smoother unit, plus giving you the pride of building it yourself.

NOTE: In future articles we will go nto advanced design-idea trends and basic problems. Also the building of better cars with custom built low production bodies, etc.

Tip Be sure your gear mesh is not dight car not too heavy, thes are on arraight, axles free, guide pickups contacting good, etc. These are all things that help you go fast

Name readed. Remor matter pinion goers, ring good motors mounting acrows: 2 4-40 auth and acrows: and ar two sticks of Perfect telling. 925 bress 1 inch by 2 1/2 inches, todds; guide then wheels, tires; cales, body 1/4, give: wire proper working loofs.

Hams needed to holld the car are hebby thop over-the-counter parts. Remember, price is not always important.... light weight and quality are. If you like is a parts free area there are many soil order shops throughout the USA to serie you.



You'll want to remove the body often (to check brushes, connections, etc.) to make sure your posts are secure.

Scuderia SCALE

New AUTHENTIC bodies for TABLE TOP racers

One of the greatest needs created by the fantastic boom of slot racing in the U.S. centers about authentic sports and race car bodies. Late model shells of the European speedsters have been virtually non-existent up to now and table top enthusiases have had to acratch-build their own. A new company has entered the picture. Labeled Scuderia Scale, it is producing four new 1/25th scale bodies of high impact styrene plastic. Their quality and assembling case seem quite good.





Fully assembled and ready for racing are the Lotus Elite (top) and the sleek Correste Sting Ray. Any motor and chassis offered for slot racing will fit in these two. Cars come with complete bottoms.



Two more racing profiles femiliar on the international circults are the Possche Formula I and II and the Chaparral, Each of these kits retails for \$1.98. Company also offers a sheet styrene kit to build.





TOP TABLE TOP TRACK

FROM

MICHIGAN

Popping up across the country are well organized and active table top racing clubs. The center of these groups is always the official clirb track. Each issue MODEL CAR SCIENCE will feature a top club and its home course. Our initial spotlight falls on the Motor Chy Model Raceways of Utica, Michigan. Under Presy Pete Hagonbuch, the MCMR's have built a domanding and beautifully detailed competition circuit. A study of its features should give you plenty of ideas for your own home or club course. This great track was recently the some of the First Annual Motor City Grand Prix, with participants appearing who represented clubs from many states.













Monogram Custom Ford "T"

Additional Customizing and Show Accessories

Front Wheel Steering . Can be Materized

Street and Show Pick-Up

Big "T" With Show Accessories

The SIG "T" MI contains accessories for selling up a fastinating above. These include Two Custom Jacks for Display. Two Screwdillers, Four form Jacks for Display. Two Screwdillers, Four form Jacks for Display. Two Screwdillers, Four Open-End Wrenches, One Four-Way Lug Wrench, Place, First Add Kil, St. Stands and Cases for Reping Of "Embilition Space," Fire Estinguisher, Large Award Trophy, Three Safety Flares.



Fun to Make! Joy to Own!

KIT PA78

\$1098

Here is standout design and styling-super detail and type popularity—in the most mag-nificent custom model job you have ever seen. Built around the prized '24 Ford 'T' roadster bucket, the big 'T' sports components and parts from eleven different cars and is loaded with custom goodies.

 Let yourself go with this kit. Use the extra
parts to make the Eig "T" as you like it
best, including a choice of interiors — one has
a center console, telephone, radio and TV.
There's a custom Cherry 283 mill with all the
trimmings—"24 and "32 Ford radiotor shells and custom grill—realistic soft and phable "Firestone" tires and "Racemaster" dragster slicks—fibre glass type bucket seats with simulated Naugahyde upholstery-tools-trophyshow accessories. Model steers like a real car and can be motorized.

 Big delute kit contains 203 parts, precision molded in red, white, black, silver and clear plastic. 97 of the parts are in gleaming chrome plate. No painting required. 24-page assembly guide with 108 pictures, suggests other custom variations from mild to wild you can make.

· Get the Big "T" kit at neighborhood hobby shops and other stores and have the time of your life.

Monogram Models, Inc., Mortos Grove, Illinois

Don't Accept a Copy or Substitute . . . Ask for Big "T" by Monogram.

Dozign Festures Parts and Components **Custom Variations**

Working Action

Stemming action is thru gaze bor at stacking (clumn base to the Perman arm, drag and and troot wheels Model may be maloused with sources sower has AK200. Dealers sub-hubble.

Body and Top Features 1914 Model - T. Roadshir Buchet Authoric Cont Lamps 4 Inch Gtop Fram Windsheak Flower Sumban Antones for Badia Stock Top, Chooped 4 Inches

Interior Components

micriar somponents
Simulated Pleated and Rolled Mangalyde.
Custom Gambund with 2, W Instruments
Rawnized Cubilities Steering Wheel
Long Shift Laws with Shall Shift Knoh
Custom Lenter Consols with IV, Riddy,
Longotte Shift Laws.

Printeglass type Bucket Seals Overhating Blake and Clutch Fedat. Custom From Exempting



Front End Fastures 1917 ford Tabeles Ade. mounted ahead of Medel "A" Frost Spring

Euclide Tape Front Sping Parch Charges '74 Model '17' Grill Shall Charges '74 Ford Gall Shall with Castern Grill Bally Low Mahameters

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Conton Shacks
Food Counter Frank Hullers Shack
Wingout Bayes Bade Maker

Wheels, Tires and Brokes Whent 48 Marriery Awarded 15 Irch Front Trees Frontine 5 00 s 15 Rest Issa - Racemente Dragster Strees 8 40 s 15 Brakes—47 Ford Drump and Saching Flates

Bad Features

B4G Peatures
Heddel "A" Bed, Shintared
Mydel "A" Tellgate
Custom simulated Naugutydu Bed Care's
License Filia Holdon
Cowl Lamp esed as Skip Light, Gas York.

Frame and Rear End Propose Wode: "A" Frame Medel "A" Rare Spring and Mauni Halibrack Quick Change Rear End and Sheetinest Young Tube Custom Rear Redice Book

Contom Esheuer States Engine and Parts

Chestalet 203 Block Edelbrock Mandald with 3 Steinberg Carbureton and Squaret type Air Classes

Stock Booker Cours Stock Bocket Cames
Custom Schwart Header's
Custom Firmwall with Moter First Block
Chair Foot Lines
33 Baich Transmission
55 Ords Ind Homang
Engine on he modified such as saling
6 carburators, feel injection or a GMC
hibwes, from Menogram Kostumaning
Engine Kd. FEGS 182 96;



Trials-steer around obstacles



CORPORATION

BOX 400 TROY, MICHIGAN
Official Model Makers to the Auto Industry